

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321228

Luminaire Tested: **GAN-SA4A-730-U-T2R-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321228  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4A-730-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13819 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

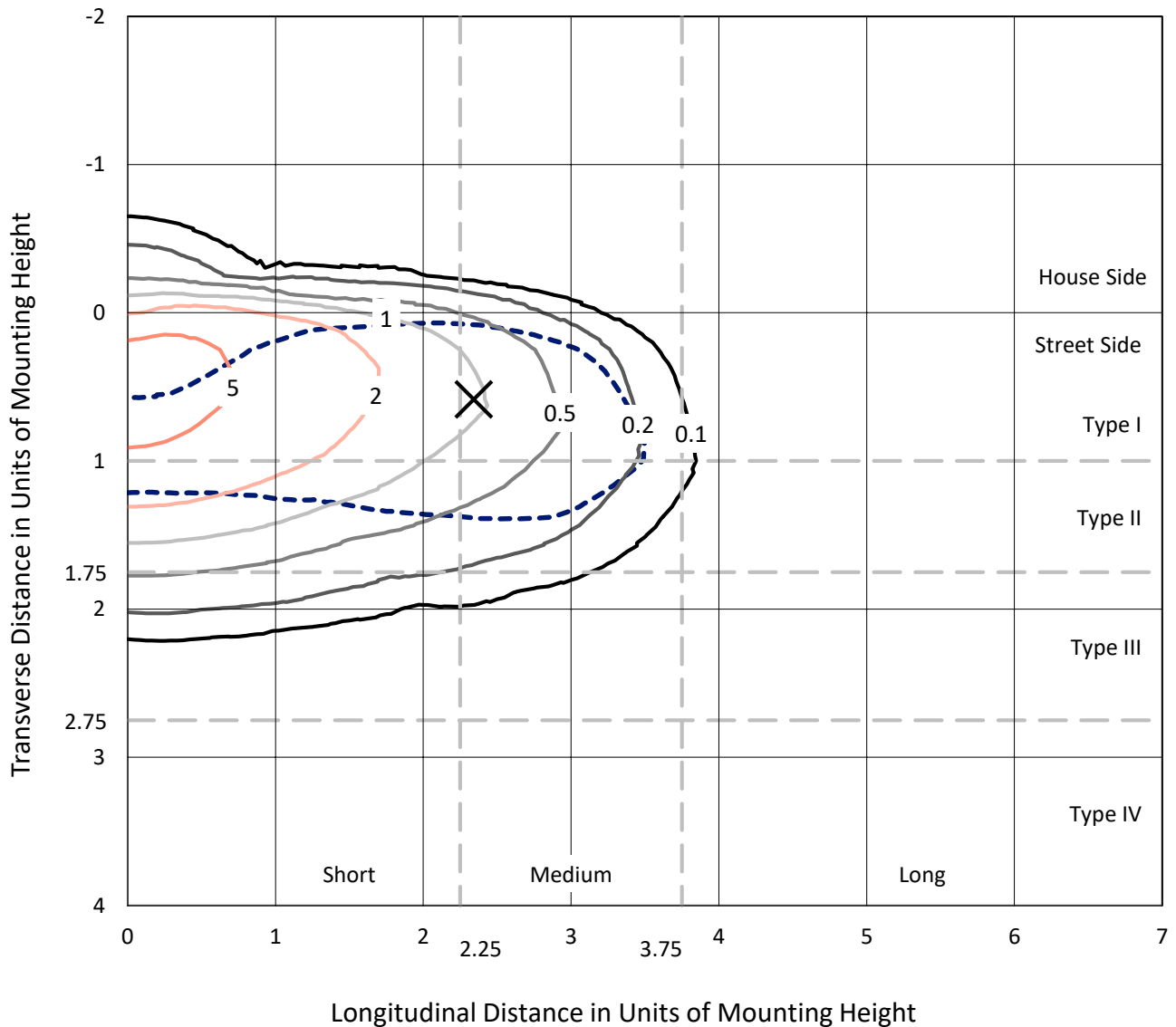
Input Watts (W): 129  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

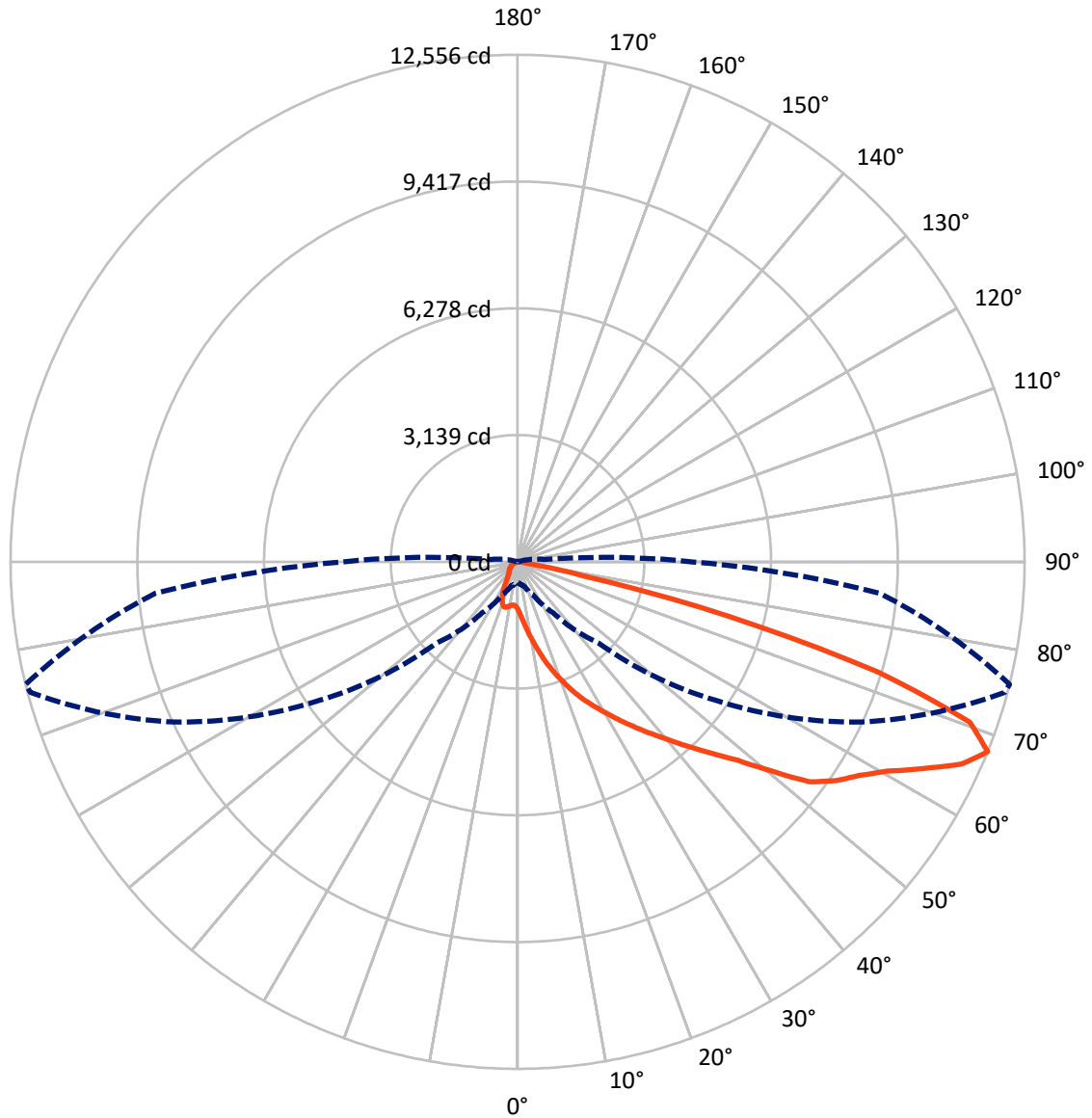
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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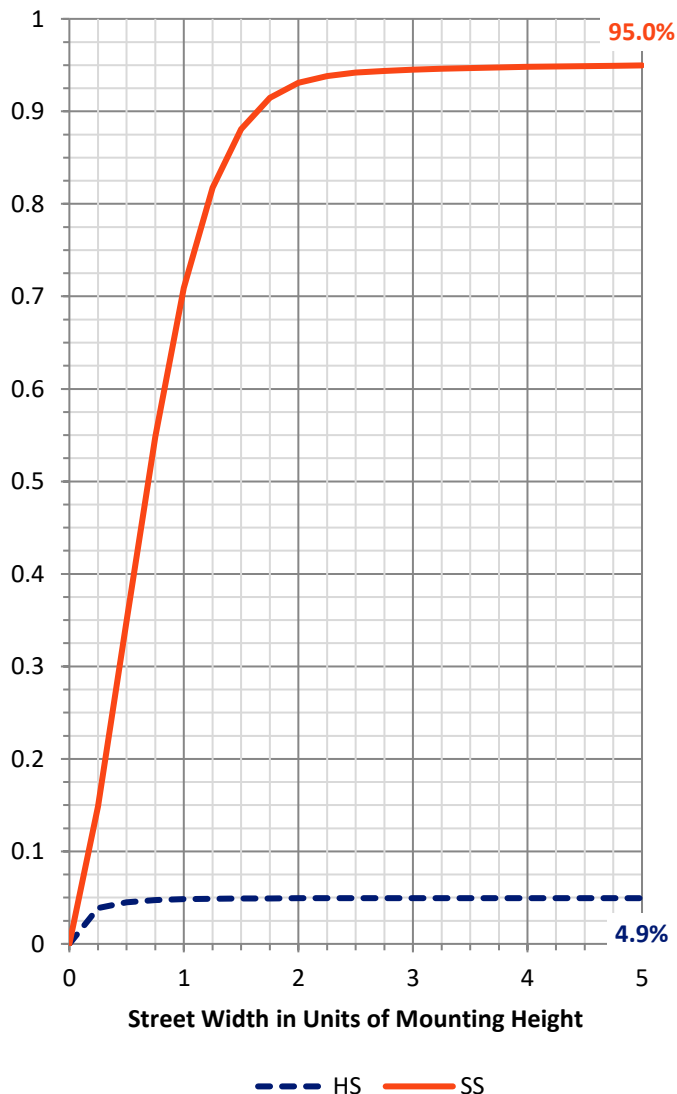
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	686.2	0.0	686.2
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	13132.8	0.0	13132.8
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	13819.0	0.0	13819.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.8	1.1
10°-20°	577.8	4.2
20°-30°	1175.7	8.5
30°-40°	2040.7	14.8
40°-50°	2883.2	20.9
50°-60°	3269.7	23.7
60°-70°	2711.9	19.6
70°-80°	982.3	7.1
80°-90°	31.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	13819.0	100.0
0°-180°	13819.0	100.0

**Coefficient of Utilization**



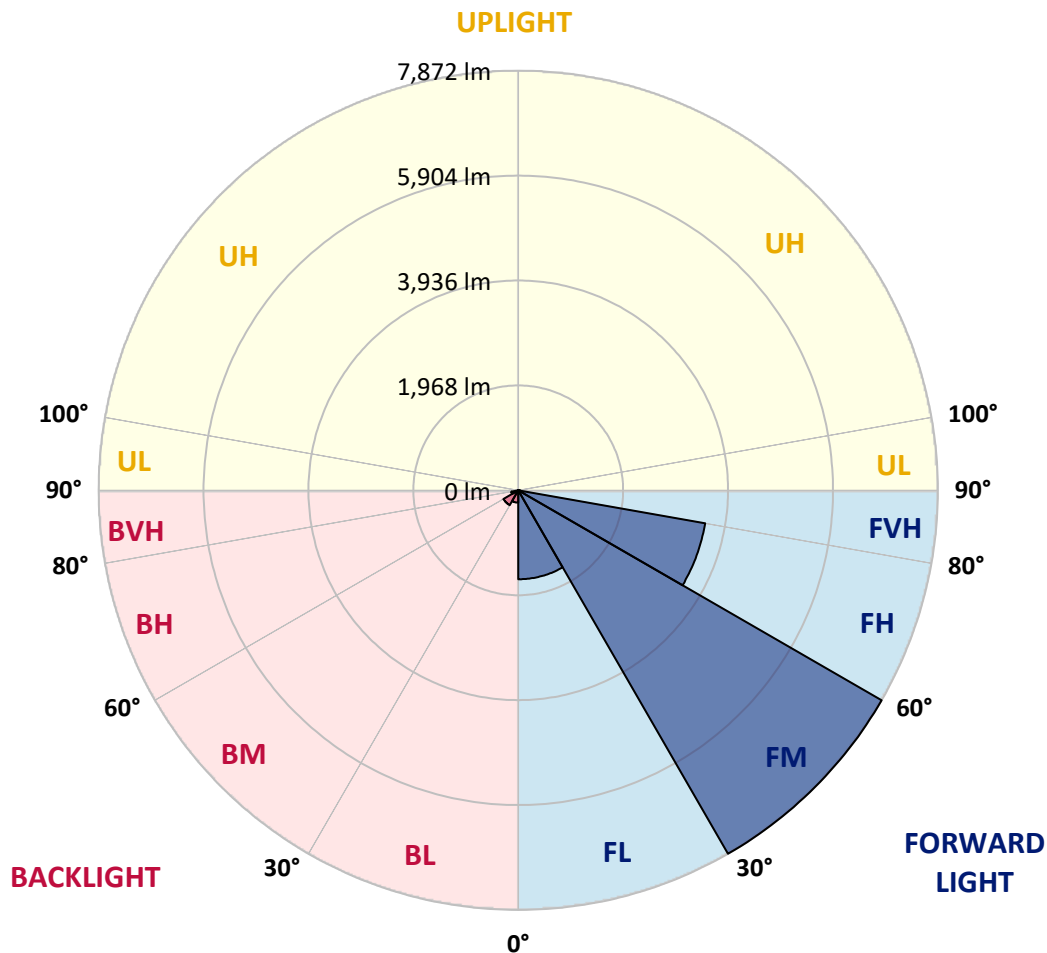
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1667.9	12.1			
FM (30°-60°)	7872.4	57.0			
FH (60°-80°)	3561.6	25.8			G2/5000
FVH (80°-90°)	30.9	0.2			G1/100
BL (0°-30°)	231.4	1.7	B1/500		
BM (30°-60°)	321.2	2.3	B1/1000		
BH (60°-80°)	132.6	1.0	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1749.9	1710.5	1719.6	1694.2	1648.2	1553.7	1473.2	1396.9	1307.9	1304.9	1231.6
5°	2359.6	2326.3	2322.1	2270.6	2187.1	2026.6	1870.4	1692.4	1493.8	1479.2	1323.6
7.5°	2913.1	2886.4	2876.7	2815.6	2660.0	2503.7	2300.3	2038.7	1728.1	1701.5	1447.8
10°	3338.1	3325.4	3327.8	3284.2	3151.0	3005.7	2738.7	2405.1	1993.9	1952.7	1596.7
12.5°	3660.3	3663.3	3685.1	3658.4	3584.0	3476.2	3191.0	2795.6	2288.2	2231.9	1766.9
15°	3897.0	3912.1	3952.1	3985.4	3980.0	3886.7	3625.1	3192.2	2600.6	2538.3	1956.4
17.5°	4050.2	4067.2	4125.3	4199.2	4267.0	4245.2	4044.1	3574.9	2916.7	2844.6	2159.2
20°	4184.6	4204.6	4267.0	4364.5	4491.0	4518.3	4386.3	3946.1	3232.2	3144.4	2368.7
22.5°	4475.9	4475.3	4513.4	4570.3	4690.8	4761.1	4677.5	4290.6	3544.0	3452.6	2582.5
25°	5002.7	4982.7	4969.4	4924.5	4951.2	4994.8	4948.2	4612.7	3857.7	3765.0	2799.2
27.5°	5628.7	5640.9	5533.1	5412.6	5319.3	5274.5	5198.2	4911.2	4159.2	4057.5	3011.2
30°	6289.3	6293.0	6165.8	6012.0	5806.8	5636.6	5504.6	5196.4	4469.2	4358.4	3217.0
32.5°	6885.2	6861.5	6735.6	6526.1	6266.9	6075.6	5801.3	5514.9	4797.4	4690.2	3445.9
35°	7357.5	7329.6	7176.4	6985.7	6716.8	6524.3	6194.3	5832.8	5142.5	5037.8	3675.4
37.5°	7702.6	7669.9	7512.5	7316.3	7084.4	6972.4	6650.2	6178.5	5519.1	5406.5	3917.0
40°	7822.5	7794.0	7695.3	7551.8	7365.3	7339.9	7134.0	6576.4	5929.1	5809.2	4190.7
42.5°	7751.0	7723.2	7688.1	7639.6	7562.1	7586.3	7590.6	7029.9	6384.4	6266.3	4492.8
45°	7467.7	7442.8	7479.2	7550.0	7646.3	7766.2	8007.2	7517.3	6893.0	6767.1	4842.2
47.5°	7050.5	7032.3	7132.8	7309.6	7591.2	7921.8	8388.0	8029.6	7464.0	7347.2	5278.2
50°	6457.1	6454.0	6655.1	6977.8	7410.7	7996.9	8781.6	8612.1	8257.2	8134.3	5884.3
52.5°	5533.1	5539.1	5934.5	6451.0	7094.1	7946.0	9034.7	9360.5	9180.0	9052.3	6409.2
55°	4653.3	4689.6	4970.0	5714.7	6608.4	7757.1	9121.9	9709.8	9689.2	9568.1	6701.1
57.5°	3791.7	3857.7	4127.7	4823.4	5899.4	7321.7	9074.0	9861.2	10068.3	9975.6	7086.2
60°	2858.0	2888.2	3199.5	3849.8	4989.3	6527.3	8727.1	9943.6	10586.6	10522.4	7645.1
62.5°	1818.3	1894.0	2170.1	2797.4	3884.9	5424.1	8142.2	9942.3	11235.1	11270.2	8366.2
65°	957.9	1046.3	1192.8	1733.6	2669.7	4191.9	7262.4	9849.1	12030.7	12079.8	8929.9
67.5°	516.5	541.9	619.4	899.8	1548.3	2839.8	5969.6	9388.9	12491.5	12556.3	9008.7
70°	377.8	391.8	420.8	497.7	779.3	1649.4	4356.0	8345.6	11897.5	11873.3	8004.1
72.5°	290.0	311.8	333.6	364.5	448.1	880.4	2712.0	6535.2	9493.1	9333.2	5983.0
75°	228.9	232.5	263.4	291.2	336.1	501.4	1204.3	3806.2	5794.0	5415.6	3102.6
77.5°	182.9	185.3	203.4	227.7	270.1	329.4	373.0	1497.4	1849.8	1650.6	673.3
80°	108.4	114.4	151.4	175.6	224.0	207.7	136.2	325.2	288.8	261.6	113.2
82.5°	60.6	65.4	85.4	138.7	156.2	99.3	67.8	87.8	67.8	66.0	32.1
85°	0.0	3.0	55.1	86.0	63.6	21.8	28.5	29.1	20.0	18.8	12.7
87.5°	0.0	0.0	17.0	16.3	2.4	3.6	6.7	9.7	7.9	7.9	6.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3	1172.3
2.5°	1195.3	1162.6	1100.8	1040.3	989.4	947.6	910.1	894.9	882.8	881.0	871.3
5°	1248.5	1182.5	1064.5	967.6	902.8	856.8	817.4	793.2	774.4	767.2	760.5
7.5°	1329.1	1229.2	1059.6	948.2	870.7	793.2	720.5	641.8	592.8	574.0	563.1
10°	1427.2	1290.9	1077.8	942.8	807.1	643.6	523.2	423.2	382.7	369.4	365.7
12.5°	1541.6	1367.8	1109.3	908.9	671.5	457.2	360.9	327.0	317.9	313.6	313.6
15°	1673.0	1452.0	1131.7	810.8	496.5	345.7	312.4	296.7	287.0	281.6	282.2
17.5°	1807.4	1534.3	1120.8	668.5	366.3	307.6	282.8	265.8	252.5	247.0	245.8
20°	1943.1	1610.6	1060.2	497.7	310.0	279.1	251.3	232.5	219.2	213.7	212.5
22.5°	2083.5	1675.4	953.7	365.1	278.5	247.7	220.4	201.6	188.9	184.1	181.7
25°	2220.4	1728.1	804.7	295.5	248.9	218.0	191.9	174.4	162.9	158.0	157.4
27.5°	2348.1	1761.4	632.1	261.0	222.8	191.3	167.7	152.0	142.3	138.7	138.1
30°	2463.2	1764.4	467.4	235.5	199.8	168.3	146.5	132.6	124.1	120.5	119.3
32.5°	2579.4	1739.0	340.3	212.5	178.6	148.3	127.2	116.3	110.2	107.2	107.2
35°	2689.0	1680.3	265.2	192.5	158.0	129.0	112.0	104.1	100.5	97.5	97.5
37.5°	2796.2	1596.1	225.2	175.0	138.7	112.6	98.7	93.9	90.8	87.8	87.8
40°	2905.2	1490.1	204.7	158.6	122.9	99.9	87.8	83.6	80.5	78.1	77.5
42.5°	3039.0	1367.8	191.3	143.5	109.0	88.4	77.5	72.7	70.2	67.8	66.6
45°	3194.0	1262.5	180.4	128.4	97.5	78.7	67.2	62.4	58.7	55.7	55.1
47.5°	3417.5	1186.2	165.9	112.0	86.6	68.4	58.1	52.7	47.2	44.2	43.6
50°	3702.6	1123.2	147.1	97.5	75.7	58.1	48.4	41.8	36.9	33.9	33.9
52.5°	3844.3	1040.9	130.2	84.8	63.6	49.0	39.4	31.5	29.1	26.0	26.0
55°	3901.2	977.9	113.2	72.1	52.7	40.6	30.9	24.2	22.4	20.6	20.0
57.5°	4061.1	959.7	98.7	61.2	43.6	32.1	23.6	18.2	17.0	14.5	14.5
60°	4318.4	968.8	85.4	52.1	35.1	24.8	17.6	13.9	12.7	10.3	10.3
62.5°	4596.4	957.3	72.1	44.8	27.2	18.2	12.1	10.3	10.3	6.1	5.4
65°	4649.6	852.5	61.8	36.9	21.2	13.3	7.9	6.7	9.1	1.2	0.0
67.5°	4315.4	661.2	53.3	28.5	15.7	10.3	6.1	3.0	7.9	0.0	0.0
70°	3450.8	420.2	43.0	20.6	12.1	8.5	4.8	1.2	6.1	0.0	0.0
72.5°	2440.2	244.0	33.9	14.5	10.3	6.7	3.6	0.0	3.6	0.0	0.0
75°	1234.0	130.2	21.2	10.9	7.9	4.8	2.4	0.0	0.6	0.0	0.0
77.5°	267.0	60.6	13.3	7.9	5.4	3.0	1.2	0.0	0.0	0.0	0.0
80°	58.1	26.6	8.5	4.8	3.0	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	21.2	13.9	4.2	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.5	7.3	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.1	2.4	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)